

USAMMDA INFORMATION PAPER

PRODUCT: DENTAL FIELD TREATMENT AND OPERATING SYSTEM

DESCRIPTION: The Dental Field Treatment and Operating System (DEFTOS) is a state-of-the-art system utilizing the latest electric motor driven hand-piece technology, and incorporates all of the functionality to perform any dental procedure from cleaning to oral surgery. The system includes an electric motor, with or without fiber optics, high-speed hand-piece, low speed hand-piece, air/water supply, air/water syringe, high volume evacuator, saliva ejector, and variable speed foot switch. The system is lightweight and totally self-contained. It includes an oil-less air compressor that provides air to the water and air supply subsystems, a self-contained water supply for hand-piece coolant and oral irrigation, and a waste reservoir for collection of liquids and solids from the vacuum supply subsystem. The system supports a variety of standard electric motors and all E-type connected hand-pieces. The entire system can be quickly assembled or disassembled, and packs into one molded shipping container for safe transport and storage.

PROGRAM RELEVANCE to the ARMY: This product supports both the core mission of the Army and the Army transformation. Of the Army's core competencies, this product supports "Prompt Response," "Sustained Land Dominance," and "Support of Civil Authorities." In support of the Army transformation, the system drastically reduces the footprint on the battlefield, and requires much less power and support, while providing high quality dental care. This product supports Future Operational Capabilities: MD-02-001 Clearing the Battlefield, MD-02-002 Hospitalization, MD-02-003 Medical Force Protection, and MD-02-004 Combat Health Logistics.

ISSUES/ACTIONS:

- The results of the field evaluation have been analyzed and recommended modifications provided to the manufacturer. These include provision for 50/60 Hz operations, 110/220-volt input, modified foot control, and improved vacuum. The 20 test units were modified and will be sent to the field for long-term evaluation until the system is transitioned for procurement. Preliminary results of redeployment have shown no problems and a positive acceptance by the user community. An Integrated Product Team (IPT) meeting held in September 2003 recommended transition of the product for procurement.

ADDITIONAL INFORMATION:

BPL # 423

DA PROJECT/TASK: Trauma Management –
PE/PROJ 643807/836QD; 654807/832QD

MAMP RANK: 8/36

ARMY ORD: Draft

SCHEDULE:

MS A	4QFY01
MS C	1QFY04

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